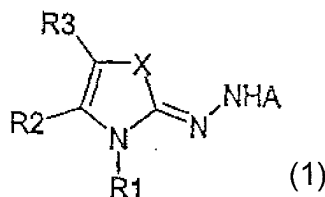


**Amendments to the claims:**

Claims 1-13: (canceled)

14. (new) An agent for coloring fibers (A), containing:

(a) at least one hydrazone derivative of formula (I) or a physiologically compatible salt thereof,



wherein

X denotes oxygen or sulfur,

A denotes hydrogen, an acetyl group, a trifluoroacetyl group, a formyl group, a (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfonyl group or an arylsulfonyl group;

R1 denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a sulfonic acid-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a formyl group, a C(O)-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a C(O)-phenyl group, a C(O)NH-(C<sub>1</sub>-C<sub>12</sub>) alkyl group, a C(O)NH-phenyl group, a substituted or unsubstituted phenyl group or a benzyl group;

R2 and R3 can be equal or different and independently of each other denote hydrogen, a halogen atom (F, Cl, Br, I), a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxyl-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a (C<sub>1</sub>-C<sub>12</sub>)-alkoxy group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a carboxylic acid group, a C(O)O(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a substituted or unsubstituted C(O)O-phenyl group, a substituted or unsubstituted phenyl group or a naphthyl group;

or R2 and R3 together with the remainder of the molecule form a heterocyclic or carbocyclic, saturated or unsaturated, substituted or unsubstituted ring system;

(b) at least one known coupler or a physiologically compatible salt thereof; and

(c) a persulfate salt as oxidant.

15. (new) The agent according to claim 14, wherein X denotes sulfur and A stands for hydrogen, R1 denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, or a substituted or unsubstituted phenyl group, and R2 and R3 independently of each other denote hydrogen, a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a C(O)O-alkyl group or a substituted or unsubstituted phenyl group or a naphthyl group, or R2 and R3 together with the remainder of the molecule form a carbocyclic, unsaturated, substituted or unsubstituted ring system.

16.(new) The agent according to claim 14, wherein the at least one hydrazone derivative of formula (I) is selected from the group consisting of

3-methyl-2(3H)-thiazolone hydrazone,  
3,4-dimethyl-2(3H)-thiazolone hydrazone,  
4-tert.butyl-3-methyl-2(3H)-thiazolone hydrazone,  
3-methyl-4-phenyl-2(3H)-thiazolone hydrazone,  
3-methyl-4-(4-tolyl)-2(3H)-thiazolone hydrazone,  
4-(4-methoxy)phenyl-3-methyl-2(3H)-thiazolone hydrazone,  
4-(4-ethoxy)phenyl-3-methyl-2(3H)-thiazolone hydrazone,  
4-(4-bromophenyl)-3-methyl-2(3H)-thiazolone hydrazone,  
4-(3-bromophenyl)-3-methyl-2(3H)-thiazolone hydrazone,  
4-(4-chlorophenyl)-3-methyl-2(3H)-thiazolone hydrazone,  
4-(3-chlorophenyl)-3-methyl-2(3H)-thiazolone hydrazone,  
3-methyl-4-(4-nitrophenyl)-2(3H)-thiazolone hydrazone,  
3-methyl-4-(3-nitrophenyl)-2(3H)-thiazolone hydrazone,  
4-[(1,1'-biphenyl)-4-yl]-3-methyl-2(3H)-thiazolone hydrazone,  
3-methyl-4-(2-naphthalenyl)-2(3H)-thiazolone,  
ethyl 2-hydrazono-2,3-dihydro-3-methyl-4-thiazolecarboxylate,  
3,4,5-trimethyl-2(3H)-thiazolone hydrazone,  
3,4-dimethyl-5-phenyl-2(3H)-thiazolone hydrazone,  
3,5-dimethyl-4-phenyl-2(3H)-thiazolone hydrazone,  
3-methyl-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
5-ethyl-3-methyl-4-phenyl-2(3H)-thiazolone hydrazone,  
4-(4-bromophenyl)-3-methyl-5-phenyl-2(3H)-thiazolone hydrazone,  
3-methyl-5-phenyl-4-(4-tolyl)-2(3H)-thiazolone hydrazone,  
5-(4-chlorophenyl)-4-phenyl-3-methyl-2(3H)-thiazolone hydrazone,  
5-(4-chlorophenyl)-4-(4-methoxyphenyl)-3-methyl-2(3H)-thiazolone hydrazone,  
ethyl 2-hydrazono-2,3-dihydro-3,4-dimethyl-4-thiazolecarboxylate,  
4-amino-2-hydrazono-2,3-dihydro-3-methyl-5-thiazolecarbonitrile,  
3-ethyl-4,5-dimethyl-2(3H)-thiazolone hydrazone,  
ethyl 2-hydrazono-2,3-dihydro-3-ethyl-4-methylthiazolecarboxylate,  
5-methyl-3-(1-methylethyl)-4-phenyl-2(3H)-thiazolone hydrazone,  
4,5-dimethyl-3-(1-methylethyl)-2(3H)-thiazolone hydrazone,  
3-(1-methylethyl)-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
4,5-dimethyl-3-propyl-2(3H)-thiazolone hydrazone,  
4,5-diphenyl-3-propyl-2(3H)-thiazolone hydrazone,  
3-butyl-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
4,5-dimethyl-3-(2-methylpropyl)-2(3H)-thiazolone hydrazone,  
3-(2-methylpropyl)-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
3-hydroxyethyl-2(3H)-thiazolone hydrazone,  
3-hydroxyethyl-4-methyl-2(3H)-thiazolone hydrazone,  
3-hydroxyethyl-4,5-dimethyl-2(3H)-thiazolone hydrazone,

3-aminoethyl-2(3H)-thiazolone hydrazone,  
 3-aminoethyl-4-methyl-2(3H)-thiazolone hydrazone,  
 3-aminoethyl-4,5-dimethyl-2(3H)-thiazolone hydrazone,  
 3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 4-methyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 4-p-biphenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 4-(4-methoxy)phenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 4-tert.butyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 4,5-dimethyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 5-methyl-3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 3,4,5-triphenyl-2(3H)-thiazolone hydrazone,  
 4,5-dimethyl-3-(phenylmethyl)-2(3H)-thiazolone hydrazone,  
 3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 4-methyl-3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 4-tert.butyl-3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 4-phenyl-3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 4,5-dimethyl-3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 4,5-diphenyl-3-(2-propenyl)-2(3H)-thiazolone hydrazone,  
 ethyl 2-hydrazono-2,3-dihydro-3-[(phenylamino)carbonyl]-4-methylthiazolecarboxylate,  
 3-methyl-4,5,6,7-tetrahydro-2(3H)-benzothiazolone hydrazone,  
 3-methyl-2(3H)-benzothiazolone hydrazone,  
 3,6-dimethyl-2(3H)-benzothiazolone hydrazone,  
 6-chloro-3-methyl-2(3H)-benzothiazolone hydrazone,  
 7-chloro-3-methyl-2(3H)-benzothiazolone hydrazone,  
 6-hydroxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 5-methoxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 7-methoxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 5,6-dimethoxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 5-ethoxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 6-ethoxy-3-methyl-2(3H)-benzothiazolone hydrazone,  
 3-methyl-5-nitro-2(3H)-benzothiazolone hydrazone,  
 3-methyl-6-nitro-2(3H)-benzothiazolone hydrazone,  
 5-acetamido-3-methyl-2(3H)-benzothiazolone hydrazone,  
 6-acetamido-3-methyl-2(3H)-benzothiazolone hydrazone,  
 5-anilino-3-methyl-2(3H)-benzothiazolone hydrazone,  
 6-anilino-3-methyl-2(3H)-benzothiazolone hydrazone,  
 2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolecarboxylic acid,  
 2-hydrazono-2,3-dihydro-3-methyl-4-benzothiazolesulfonic acid,  
 2-hydrazono-2,3-dihydro-3-methyl-5-benzothiazolesulfonic acid,  
 2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolesulfonic acid,  
 2-hydrazono-2,3-dihydro-3-methyl-7-benzothiazolesulfonic acid,  
 2-hydrazono-2,3-dihydro-N,N,3-trimethyl-6-benzothiazolesulfonamide,  
 [(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)oxy]acethydrazide,  
 3-methylnaphtho[2,3-d]thiazole-2(3H)-one hydrazone,  
 3-ethyl-2(3H)-benzothiazolone hydrazone,  
 6-ethoxy-3-ethyl-2(3H)-benzothiazolone hydrazone,

3-propyl-2(3H)-benzothiazolone hydrazone,  
 3-butyl-2(3H)-benzothiazolone hydrazone,  
 3-hexyl-2(3H)-benzothiazolone hydrazone,  
 3-hydroxyethyl-2(3H)-benzothiazolone hydrazone,  
 3-aminoethyl-2(3H)-benzothiazolone hydrazone,  
 3-p-methylbenzyl-2(3H)-benzothiazolone hydrazone,  
 2-hydrazono-2,3-dihydro-3-(2-hydroxyethyl)-6-benzothiazolecarboxylic acid,  
 2-hydrazono-2,3-dihydro-6-methoxy-3(2H)-benzothiazolepropanesulfonic acid,  
 6-hexadecyloxy-2-hydrazono-3(2H)-benzothiazolepropanesulfonic acid,  
 ethyl 2-keto-3-benzothiazoline acetate hydrazone,  
 3-acetyl-2(3H)-benzothiazolone hydrazone,  
 2-hydrazono-3(2H)-benzothiazole carboxaldehyde,  
 3-methyl-2(3H)-oxazolone hydrazone,  
 3-phenyl-2(3H)-oxazolone hydrazone,  
 3-methyl-2(3H)-benzoxazolone hydrazone,  
 3-phenyl-2(3H)-benzoxazolone hydrazone,  
 N-acetyl-3-methyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3,4-dimethyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-methyl-4-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-(4-methoxy)phenyl-3-methyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-methyl-4-(4-nitro)phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-[(1,1'-biphenyl)4-yl]-3-methyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-methyl-4-(2-naphthalenyl)-2(3H)-thiazolone hydrazone,  
 ethyl N-acetyl-2-hydrazono-2,3-dihydro-3-methyl-4-thiazolecarboxylate,  
 N-acetyl-3,4,5-trimethyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3,4,-dimethyl-5-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3,5,-dimethyl-4-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-methyl-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-ethyl-4,5-dimethyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-methyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-p-biphenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-(4-methoxy)phenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4-tert.butyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-4,5-dimethyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-5-methyl-3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3,4,5-triphenyl-2(3H)-thiazolone hydrazone,  
 N-acetyl-3-methyl-2(3H)-benzothiazolone hydrazone,  
 N-acetyl-3-ethyl-2(3H)-benzothiazolone hydrazone,  
 N-acetyl-3-butyl-2(3H)-benzothiazolone hydrazone,  
 N-acetyl-3-hexyl-2(3H)-benzothiazolone hydrazone,  
 N-acetyl-3-p-methylbenzyl-2(3H)-benzothiazolone hydrazone,  
 N-acetyl-3-methyl-2(3H)-oxazolone hydrazone,  
 N-acetyl-3-phenyl-2(3H)-oxazolone hydrazone,

N-acetyl-3-methyl-2(3H)-benzoxazolone hydrazone,  
 N-acetyl-3-phenyl-2(3H)-benzoxazolone hydrazone,  
 N-formyl-3-methyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3,4-dimethyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-methyl-4-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-(4-methoxy)phenyl-3-methyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-methyl-4-(4-nitro)phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-[(1,1'-biphenyl)4-yl]-3-methyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-methyl-4-(2-naphthalenyl)-2(3H)-thiazolone hydrazone,  
 ethyl N-formyl-2-hydrazono-2,3-dihydro-3-methyl-4-thiazolecarboxylate,  
 N-formyl-3,4,5-trimethyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3,4,-dimethyl-5-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3,5,-dimethyl-4-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-methyl-4,5-diphenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-ethyl-4,5-dimethyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-methyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-p-biphenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-(4-methoxy)phenyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4-tert.butyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-4,5-dimethyl-3-phenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-5-methyl-3,4-diphenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3,4,5-triphenyl-2(3H)-thiazolone hydrazone,  
 N-formyl-3-methyl-2(3H)-benzothiazolone hydrazone,  
 N-formyl-3-ethyl-2(3H)-benzothiazolone hydrazone,  
 N-formyl-3-butyl-2(3H)-benzothiazolone hydrazone,  
 N-formyl-3-hexyl-2(3H)-benzothiazolone hydrazone,  
 N-formyl-3-p-methylbenzyl-2(3H)-benzothiazolone hydrazone,  
 N-formyl-3-methyl-2(3H)-oxazolone hydrazone,  
 N-formyl-3-phenyl-2(3H)-oxazolone hydrazone,  
 N-formyl-3-methyl-2(3H)-benzoxazolone hydrazone and  
 N-formyl-3-phenyl-2(3H)-benzoxazolone hydrazone.

17. (new) The agent according to claim 1, wherein the at least one coupler is selected from the group consisting of

N-(3-dimethylaminophenyl)urea; 2,6-diaminopyridine; 2-amino-4-[(2-hydroxyethyl)amino]- anisole; 2,4-diamino-1-fluoro-5-methylbenzene; 2,4-diamino-1-methoxy-5-methylbenzene; 2,4-diamino-1-ethoxy-5-methylbenzene; 2, 4-diamino-1 -

(2-hydroxyethoxy)-5-methyl benzene; 2,4-di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene; 2,3-diamino-6-methoxypyridine; 3-amino-6-methoxy-2-(methylamino)pyridine; 2,6-diamino-3,5-dimethoxypyridine; 3,5-diamino-2,6-dimethoxypyridine; 1,3-diaminobenzene; 2,4-diamino-1-(2-hydroxyethoxy)benzene; 1,3-diamino-4-(2,3-dihydroxypropoxy)benzene; 1,3-diamino-4-(3-hydroxypropoxy)benzene; 1,3-diamino-4-(2-methoxyethoxy)benzene; 2,4-diamino-1,5-di(2-hydroxyethoxy)-benzene; 1-(2-aminoethoxy)-2,4-diaminobenzene; 2-amino-1-(2-hydroxyethoxy)-4-methylaminobenzene; 2,4-diaminophenoxyacetic acid; 3-[di(2-hydroxyethyl)amino]aniline; 4-amino-2-di[(2-hydroxyethyl)amino]-1-ethoxybenzene; 5-methyl-2-(1-methylethyl)phenol; 3-[(2-hydroxyethyl)amino]aniline; 3-[(2-aminoethyl)amino]aniline; 1,3-di(2,4-diaminophenoxy)-propane; di(2,4-diaminophenoxy)methane; 1,3-diamino-2,4-dimethoxybenzene; 2,6-bis-(2-hydroxyethyl)aminotoluene; 4-hydroxyindole; 3-dimethylaminophenol; 3-diethylaminophenol; 5-amino-2-methylphenol; 5-amino-4-fluoro-2-methylphenol; 5-amino-4-methoxy-2-methylphenol; 5-amino-4-ethoxy-2-methylphenol; 3-amino-2,4-dichlorophenol; 5-amino-2,4-dichlorophenol; 3-amino-2-methylphenol; 3-amino-2-chloro-6-methylphenol; 3-aminophenol; 2-[(3-hydroxyphenyl)amino]acetamide; 5-[(2-hydroxyethyl)amino]-4-methoxy-2-methylphenol; 5-[(2-hydroxyethyl)amino]-2-methylphenol; 3-[(2-hydroxyethylamino)]phenol; 3-[(2-methoxyethyl)amino]phenol; 5-amino-2-ethylphenol; 5-amino-2-methoxyphenol; 2-(4-amino-2-hydroxyphenoxy)ethanol; 5-[(3-hydroxypropyl)amino]-2-methylphenol; 3-[(2,3-dihydroxypropyl)amino]-2-methylphenol; 3-[(2-hydroxyethyl)amino]-2-methylphenol; 2-amino-3-hydroxypyridine; 2,6-dihydroxy-3,4-dimethylpyridine; 5-amino-4-chloro-2-

methylphenol; 1-naphthol; 2-methyl-1-naphthol; 1,5-dihydroxynaphthalene; 1,7-dihydroxynaphthalene; 2,3-dihydroxynaphthalene; 2,7-dihydroxynaphthalene; 2-methyl-1-naphthol acetate; 1,3-dihydroxybenzene; 1-chloro-2,4-dihydroxybenzene; 2-chloro-1,3-dihydroxybenzene; 1,2-dichloro-3,5-dihydroxy-4-methylbenzene; 1,5-dichloro-2,4-dihydroxybenzene; 1,3-dihydroxy-2-methylbenzene; 3,4-methylenedioxyphenol; 3,4-methylenedioxyaniline; 5-[(2-hydroxyethyl)amino]-1,3-benzodioxole; 6-bromo-1-hydroxy-3,4-methylenedioxybenzene; 3,4-diaminobenzoic acid; 3,4-dihydro-6-hydroxy-1,4(2H)-benzoxazine; 6-amino-3,4-dihydro-1,4(2H)benzoxazine; 3-methyl-1-phenyl-5-pyrazolone; 5,6-dihydroxyindole; 5,6-dihydroxyindoline; 5-hydroxyindole; 6-hydroxyindole; 7-hydroxyindole and 2,3-indolinedione.

18. (new) The agent according to claim 14, wherein the persulfate salt is selected from the group consisting of potassium persulfate, sodium persulfate and ammonium persulfate.

19. (new) The agent according to claim 14, containing the at least one hydrazone derivative of formula (I), and the at least one coupler and persulfate salt in a total amount from 0.01 to 10 weight percent, each.

20. (new) The agent according to claim 14, containing from 0.01 to 10 weight percent of a physiologically harmless direct dye selected from the group consisting of cationic dyes, anionic dyes, disperse dyes, nitro dyes, azo dyes, quinone dyes and triphenylmethane dyes.

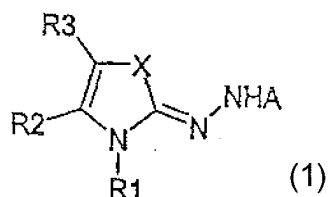
21. (new) The agent according to claim 14, having a pH from 3 to 10.



22. (new) The agent according to claim 14, consisting of a hair colorant.

23. (new) A two-component kit consisting of a dye carrier composition,  
(A1) containing,

at least one hydrazone derivative of formula (I) or a physiologically  
compatible salt thereof,



wherein

X denotes oxygen or sulfur,

A denotes hydrogen, an acetyl group, a trifluoroacetyl group, a formyl group,  
a (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfonyl group or an arylsulfonyl group;

R1 denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a sulfonic acid-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a formyl group, a C(O)-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a C(O)-phenyl group, a C(O)NH-(C<sub>1</sub>-C<sub>12</sub>) alkyl group, a C(O)NH-phenyl group, a substituted or unsubstituted phenyl group or a benzyl group;

R2 and R3 can be equal or different and independently of each other denote hydrogen, a halogen atom (F, Cl, Br, I), a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxyl-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a (C<sub>1</sub>-C<sub>12</sub>)-alkoxy group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-

C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a carboxylic acid group, a C(O)O(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a substituted or unsubstituted C(O)O-phenyl group, a substituted or unsubstituted phenyl group or a naphthyl group;

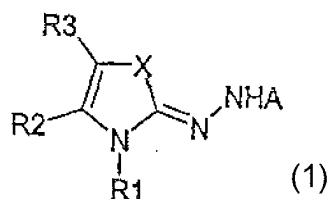
or R<sub>2</sub> and R<sub>3</sub> together with the remainder of the molecule form a heterocyclic or carbocyclic, saturated or unsaturated, substituted or unsubstituted ring system;

another dye carrier composition (A2) containing couplers and persulfate salts, and

optionally an agent for adjusting pH.

24. (new) A two-component kit, containing:

a first component consisting of a powder containing at least one hydrazone derivative of formula (I) or a physiologically compatible salt thereof,



wherein

X denotes oxygen or sulfur,

A denotes hydrogen, an acetyl group, a trifluoroacetyl group, a formyl group, a (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfonyl group or an arylsulfonyl group;

R<sub>1</sub> denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a sulfonic acid-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a formyl group, a C(O)-(C<sub>1</sub>-C<sub>12</sub>)-

-alkyl group, a C(O)-phenyl group, a C(O)NH-(C<sub>1</sub>-C<sub>12</sub>) alkyl group, a C(O)NH-phenyl group, a substituted or unsubstituted phenyl group or a benzyl group;

R<sub>2</sub> and R<sub>3</sub> can be equal or different and independently of each other denote hydrogen, a halogen atom (F, Cl, Br, I), a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxyl-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a(C<sub>1</sub>-C<sub>12</sub>)-alkoxy group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a carboxylic acid group, a C(O)O(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a substituted or unsubstituted C(O)O-phenyl group, a substituted or unsubstituted phenyl group or a naphthyl group;

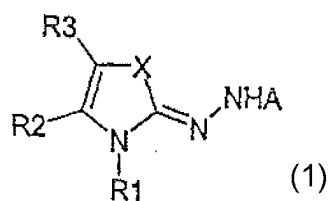
or R<sub>2</sub> and R<sub>3</sub> together with the remainder of the molecule form a heterocyclic or carbocyclic, saturated or unsaturated, substituted or unsubstituted ring system;

the powder further consisting of couplers and the persulfate salts and optionally other common powdered cosmetic additives, and

a second component consisting of water or a liquid cosmetic preparation optionally containing an agent for adjusting the pH.

25. (new) A method for coloring hair whereby a hair colorant is applied to the hair, and after an exposure time of 5 to 60 minutes at a temperature from 20 to 50° C the hair is rinsed with water, optionally washed with a shampoo and then dried, wherein the hair colorant comprises:

(a) at least one hydrazone derivative of formula (I) or a physiologically compatible salt thereof,



wherein

X denotes oxygen or sulfur,

A denotes hydrogen, an acetyl group, a trifluoroacetyl group, a formyl group, a (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfonyl group or an arylsulfonyl group;

R1 denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a sulfonic acid-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a formyl group, a C(O)-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a C(O)-phenyl group, a C(O)NH-(C<sub>1</sub>-C<sub>12</sub>) alkyl group, a C(O)NH-phenyl group, a substituted or unsubstituted phenyl group or a benzyl group;

R2 and R3 can be equal or different and independently of each other denote hydrogen, a halogen atom (F, Cl, Br, I), a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxyl-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a (C<sub>1</sub>-C<sub>12</sub>)-alkoxy group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a carboxylic acid group, a C(O)O(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a substituted or unsubstituted C(O)O-phenyl group, a substituted or unsubstituted phenyl group or a naphthyl group;

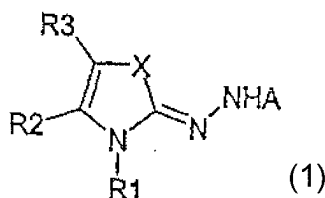
or R2 and R3 together with the remainder of the molecule form a

heterocyclic or carbocyclic, saturated or unsaturated, substituted or unsubstituted ring system;

- (b) at least one known coupler or a physiologically compatible salt thereof; and
- (c) a persulfate salt as oxidant.

26. (new) A method for coloring hair whereby the ready-for-use colorant (A) is prepared just before use by mixing a first component and second component (A1, A2) – optionally with addition of an alkalinizing agent or an acid – and is then applied to the hair, and after an exposure time of 5 to 60 minutes at a temperature from 20 to 50 °C the hair is rinsed with water, optionally washed with a shampoo and then dried,

wherein the first component is a dye carrier composition (A1) containing at least one hydrazone derivative of formula (I) or a physiologically compatible salt thereof,



wherein

X denotes oxygen or sulfur,

A denotes hydrogen, an acetyl group, a trifluoroacetyl group, a formyl group, a (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfonyl group or an arylsulfonyl group;

R1 denotes a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxy-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, an amino-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a sulfonic acid-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a formyl group, a C(O)-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a C(O)-phenyl group, a C(O)NH-(C<sub>1</sub>-C<sub>12</sub>) alkyl group, a C(O)NH-phenyl group, a substituted or unsubstituted phenyl group or a benzyl group;

R2 and R3 can be equal or different and independently of each other denote hydrogen, a halogen atom (F, Cl, Br, I), a saturated or unsaturated (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a halogen (F, Cl, Br, I)-substituted (C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a hydroxyl-(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a (C<sub>1</sub>-C<sub>12</sub>)-alkoxy group, a cyano group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>12</sub>)-alkylamino group, a (C<sub>1</sub>-C<sub>12</sub>)-dialkylamino group, a carboxylic acid group, a C(O)O(C<sub>1</sub>-C<sub>12</sub>)-alkyl group, a substituted or unsubstituted C(O)O-phenyl group, a substituted or unsubstituted phenyl group or a naphthyl group;

or R2 and R3 together with the remainder of the molecule form a heterocyclic or carbocyclic, saturated or unsaturated, substituted or unsubstituted ring system; and

wherein the second component (A2) is a further dye carrier composition containing couplers and persulfate salts, and optionally an agent for adjusting pH.